

SERYY, N.I.; BELYY, G.V.; BOYPRAV, M.V.

Better organization of roadbed maintenance. Put' 1 put.khoz.  
4 no. 5:7-9 My '60. (MIRA 13:11)

1. Zamestitel' nachal'nika sluzhby puti, g.Kishinev (for Seryy).
2. Nachal'nik mostoispytatel'noy stantsii, g.Kishinev (for Belyy).
3. Starshiy inzhener sluzhby puti, g.Kishinev (for Boyprav).

(Railroads--Maintenance and repair)

SVERICV, V.N.; SERYI, N.V.

Universal circuit for the control of spring load drives. Prom. energ.  
19 no.12:15-16 D '64. (MIRA 18:3)

SERYI, P.A.

Methods of determining reserves of fracture-karst waters and water  
inflows in workings of Mirgalimsay Mine. Gor.zhur. no.8:29-31  
Ag '62. (MIRA 15:8)

1. Glavnyy gidrogeolog Karatauskoy geologorazvedochnoy  
ekspeditsii.

(Mirgalimsay region--Mine water)

SERYI, V.V.

Hydrometeorological conditions of the commercial fishing areas  
off the coast of west Africa during the spring and summer of  
1960. Trudy Azherniro no.20:3-11 '62. (MIRA 16:4)

(Atlantic Ocean—Sea water)  
(Atlantic Ocean—Meteorology)

SERYY, V.V.; KHIMITSA, V.A.

Hydrology and hydrochemistry of the Gulf of Aden and the Arabian  
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1. Azovo-Chernomorskiy nauchno-issledovatel'skiy institut  
morskogo rybnogo khozyaystva i okeanografi..

SERYI, Ya.

[Corn in districts of Tula Province] Kukurisa v raionakh Tul'skoi oblasti. [Tula] Tul'skoe knizhnoe izd-vo, 1957. 46 p.

(MIRA 10:12)

(Tula Province--Corn (maize))

KOROVIN, Ye.P., red.; SERYI, I.A., kand.istor.nauk, red.; SHISHKIN, V.A., kand.istor.nauk, red.; TROITSKIY, M.N., red.; PINKHASOV, Ya.P., tekhn.red.

[Russian scientists and explorers of Central Asia] *Russie uchenye-issledovateli Srednei Azii*. Tashkent, Gos.izd-vo UzSSR. Vol.2. [N.A.Severtsov; collection of documents] N.A.Severtsov; sbornik dokumentov. Pod red. E.P.Korovina, I.A.M.Serogo, V.A. Shishkina. 1958. 285 p. (MIRA 12:9)

1. Uzbek S.S.R. Arkhivnyy otdel. 2. Deystvitel'nyy chlen Akademii nauk Uzbekskoy SSR (for Korovin).  
(Severtsov, Nikolai Alekseevich, 1827-1885)  
(Turkestan--Scientific expeditions)

KOROVIN, Ye.P., red.; SERYI, Ya.M., kand.istorich.nauk, red.; SHISHKIN, V.A.,  
kand.istorich.nauk, red.; TROITSKIY, N.N., red.; PINKHASOV, Ya.P.,  
tekhn.red.

[N.A.Severtsov; collected documentary materials] N.A.Severtsov;  
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(Severtsov, Nikolai Alekseevich, 1827-1885)  
(Soviet Central Asia--Scientific expeditions)



KOLOSOV, A.V.; ALEYEV, I.A.; SERYY, Ye.Ya.; KARIANSKAYA, P.A.

Changes in cutaneous vessels caused by chemical stimulants in elderly and senile persons under the effect of treatment with generally stimulating substances. Vop. geron. i geriat. 4:94-99 '65. (MIRA 18:5)

1. Moskovskoye geriatricheskoye otdeleniye Instituta gerontologii AMN SSSR i Tsentral'naya bol'nitsa Ministerstva zdravookhraneniya RSFSR.

SERYY, YUZEYF IOSEFOVICH  
SERYY, Yuzef Iosifovich

[Pages from the past; railroad workers of Rostov and the Northern  
Caucasus in the Revolution of 1905-1907] Stranitsy proshlogo  
(Zheleznodorozhniki Rostova i Severnogo Kavkaza v Revoliutsii  
1905-1907 gg.) Rostov-na-Donu, Rostovskoe Knizhnoe izd-vo, 1955.  
80 p. (MIRA 11:3)

(Railroads--Employees)

(Russia--Revolution of 1905)

SERYI, Yu.I., kand. ist. nauk, otv. red.; IVANOV, L.M., doktor  
ist. nauk, red.; KIR'YANOV, Yu.I., kand. ist. nauk,  
red.; KUZNETSOV, V.I., kand. ist. nauk, red.;  
KHLYSTOV, I.P., kand. ist. nauk, red.

[Papers at the October 1963 academic session in Rostov-  
On-Don devoted to the history of the working class in  
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klassa Rossii v period kapitalizma, Rostov-on-Don, 1963.
2. Institut istorii AN SSSR (for Ivanov). 3. Rostovskiy  
gosudarstvennyy universitet (for Seryi).

FILAKHOTOV, A.L., kand.tekhn.nauk; SERYI, Z.L., inzh.; FADEYEV, A.V., inzh.;  
SENDEROVICH, B.L., inzh.

Continuous sequence in strengthening of earth banks at the  
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14-17 Je '61.

(MIRA 14:6)

(Kremenchug Hydroelectric Power Station--Embankments)

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dentiem. Riga, Latvijas Valsts izdevnieciba, 1964. 235 p.  
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[Plant diseases] Augu slimibas; praktiskie darbi. Rīga,  
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Use of automatic reclosing on transformers and automatic actuation  
of a 6 - 10 kv. sectionalizing switch in substations with two  
transformers and a 6 - 10 kv. sectionalized bus bar system. Energ.  
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(Electric power distribution)

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25945 Serzhanin, A. I. Lechenyye ognestrel'nykh raneniy golenostopnogo sustava v ofrontovom rayone. Sbornik nauch. rabot lecheb. uchrezhdeniy Mosk. voyen. okr. Gor'kiy, 1948, s. 61-73

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948



SERZHANIN, A.I., prof.

Treatment of multiple and coral-like renal calculi. Trudy Vor.  
med. inst. 52:5-12 '63. (MIRA 18:3)

SERZHANIN, A.I.; BOBROVA, N.V.; GORKER, I.B.

Gastric and duodenal perforating ulcers. Trudy Vor. med. inst.  
52:129-133 '63. (MIRA 18:3)

SERZHANIN, A.I.; L'VOVA, V.P.

Diagnosis and treatment of stomach cancer. Trudy Vor. med. inst.  
52:143-146 '63. (MIRA 18:3)

SERZHANIN, In.

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SO: U-3261 10 April 53, (Letopis 'Zhurnal 'nykh Statey No. 11, 1949)

SERZHANIN, I.

Past and present status of elk in White Russia. Sbor.nauch.trud.  
Inst.biol.AN BSSR no.1:141-146 '50. (MLRA 9:1)  
(White Russia--Elk)

SERZHANIN, I.N., kandidat biologicheskikh nauk.

Development of the ~~mammalian~~ fauna of White Russia during the  
postglacial period. Sbor.nauch.trud.Inst.biol.AN BSSR no.2:96-  
111 '51. (MLRA 9:1)

(White Russia--Mammals)

~~SHRAMIN, I.N.~~

Changes in the composition of the mammalian fauna of White Russia  
during the period of recorded history. Uch.zap.BGU no.26:170-184  
1966 (MLRA 10:9)

(White Russia--Game and game birds)

Name: SERZHANIN, Iven Nikolayevich

Dissertation: Mammals of the Belorussian SSR and their economic importance

Degree: Doc Biol Sci

Affiliation: [Not indicated]

Defense Date, Place: 5 Apr 55, Council of Belorussian State U imeni Lenin

Certification Date: 6 Apr 57

Source: BMVO 14/57



DOLBIK, Mikhail Stepanovich; SERZHANIN, I.M....prof., red.; BULAT, O.,  
red.izd-va; SIDERKO, N., tekhn.red.

[Birds of prey and their identification in nature] Khishchnye  
ptitsy i ikh raspoznavanie v prirode. Minsk, Izd-vo Akad.nauk  
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(Birds of prey)

ZHUKOV, Prokhor Ivanovich; SERZHANIN, I.N., prof., red.; BULAT, O.,  
red.izd-vs: SIDERKO, N., tekhn.red.

[Guide to fishes of the White Russian S.S.R.; manual for  
practical workers] Opredeletel' ryb Belorusskoi SSR; spravochnik  
dlia prakticheskikh rabotnikov. Minsk, Izd-vo Akad.nauk BSSR,  
1960. 122 p. (MIRA 13:9)

(White Russia--Fishes)

SERZHANIN, I.N. [Siarzhanin, I.M.]

Charles Darwin and zoogeography. Vestsi AN BSSR. Ser. biial. nav.  
no. 1: 5-7 '60. (MIRA 13:6)  
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ARZAMASOV, I.T.; ~~SERZHANIN~~, I.N., prof., red.; ZAYTSEVA, T., red. izd-va;  
SHIROKOVA, G., tekhn. red.

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131 p. (MIRA 14:3)  
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SERZHANIN, Ivan Nikolayevich; ZAYTSEVA, T., red.isd-va; VOLOKHANOVICH, I.,  
tekhn.red.

[Mammals of White Russia] Mlekopitaiushchie Belorussii. 2.isd.  
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(White Russia--Mammals)

SERZHANIN, I.N.; otv. red.; ARZAMASOV, I.T., red.; DOLBIK, M.S., red.; MERZHEYEVSKAYA, C.I., red.; NIKITENKO, M.F., red.

[Abstracts of reports of the Second Zoological Conference of the White Russian S.S.R.] Tezisy dokladov Zoologicheskoi konferentsii Belorusskoi SSR. Minsk, Izd-vo AN BSSR, 1962. 315 p. (MIRA 18:1)

1. Zoologicheskaya konferentsiya Belorusskoy SSR. 2d, Minsk, 1962. 2. Otdel zoologii i parazitologii AN BSSR, gorod Minsk (for Nikitenko).

SERZHANIN, I.P.

Effect of methacil on the growth of transplantable tumors.

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1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhen-  
nyy deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN  
SSSR (dir. deystvitel'nyy chlen AMN SSSR prof. A.I.Serebry).

Adres avtora: Leningrad, P-129, 2-ya Berezovaya al., 3, In-  
stitut onkologii AMN SSSR.

MASHKELEYSON, A.; SERZHANIN, P.; STAROVOYTOV, I.

Tenth All-Union Congress Obstetricians. Zdrav. Belor. 4 no.2:68-70  
F '58. (MIRA 13:8)

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SERZHANIN, Yu.I. [Siarzhanin, IU.I.]

Distribution characteristics and dynamics of natural stocks of  
squirrels in White Russia. Vestsi AN BSSR. Ser. biial. nav. no.2:  
89-91 '61. (MIRA 14:7)

(WHITE RUSSIA—SQUIRRELS)

SFRZHANIN, Yu.I.

Effect of living conditions on the sex and age composition  
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SERZHANIN, Yu.I. [Siarzhanin, IU.I.]

Trophic relations, enemies and parasites of the squirrel (*Sciurus vulgaris* Fedjuschini Ogn.) in White Russia. Vestsi AN BSSR. Ser. biial. nav. no.4:107-112 '63. (MIRA 17:8)

*SERZHANINA, A.N.*  
GUL'KEVICH, Yu.V., prof.; SERZHANINA, A.N., dots.

Work of the Minsk Municipal Society of Pathoanatomists during 1956.  
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1. Predsedatel' Minskogo gorodskogo nauchnogo obshchestva  
patologoanatomov (for Gul'kevich). 2. Sekretar' Minskogo  
gorodskogo nauchnogo obshchestva patologoanatomov (for Serzhanina)  
(MINSK--ANATOMY, PATHOLOGICAL--SOCIETIES)

PROKOPCHUK, A.Ya.; BASHMAKOVA, S.M.; SERZHANIN/, A.N.

Pathogenesis of lupus erythematosus. Lesion of the hypothalamus. Sbor.  
nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 6:259-270 '59. (MIRA 13:11)  
(LUPUS)  
(HYPOTHALAMUS--DISEASES)

SERZHANINA, A.N., dotsent

Candidiasis of the lungs. Zdrav. Bel. 9 no.6:45-47 Je '63.

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1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy - prof. Yu.  
V. Gul'kevich) Minskogo meditsinskogo instituta (rektor - dotsent  
A.A. Klyucharev).

SERZHANINA, A.N., dotsent; GUL'KEVICH, K. Yu. (Minsk)

Pulmonary hyaline membranes in newborn infants. Arkh. pat. 25  
no. 4:3-9 '63 (MIRA 17:4)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. Yu.V.  
Gul'kevich) Minskogo meditsinskogo instituta.

SERZHANINA, G.I. [Siarzhanina, I.]

Materials on the study of hymenomycetous fungi from northwestern  
regions of White Russia. Vestsi AN BSSR Ser. biol. nav. no. 4:56-63  
'58. (MIRA 12:4)

(Molodechno Province--Hymenomycetes)



SERZHANINA, G.I. [Siarzhanina, H.I.]

Hymenomycetous fungi in the state preserve on the Berezina River.  
Veetsi AN BSSR. Ser. biial. nav. no.3:113-121 '59.

(MIRA 12:12)

(Minsk Province--Hymenomycetes)

SERZHANINA, G.I.

Species of Agaricales new to White Russia. Dokl. AN BSSR 5 no.4:  
177-179 Ap '61. (MIFA 14:5)

1. Otdel fiziologii i sistematiki nizshikh rasteniy AN BSSR.  
Predstavleno akad. AN BSSR V.F. Kuprevichem.  
(White Russia--Agaricales)

SERZHANINA, G.I.

New species of hymenomycetous fungi of the order Agaricales in  
White Russia. Dokl. AN BSSR 5 no.11:525-528 N '61..(MIRA 15:1)

1. Otdel fiziologii i sistematiki nizshikh rasteniy AN BSSR.  
Predstavleno akademikom AN BSSR V.F.Kuprevichem.  
(White Russia--Agaricales)

SERZHANINA, G.I. [Siarzhanina, H.I.]

Agaricales of White Russia belonging to the family Boletaceae.

Vestsi AN BSSR. Ser. biial. nav. no.1:121-132 '64.

(MIRA 27:6)

SHUL'GA, K.V.; SERZHANINA, G.I., kand. biol. nauk, spets. red.

[Mushrooms of our forests] Griby nashikh lesov. Minsk,  
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SERZHANINA, O.I. [Siarshanina, H.I.]

Hymenomyces in the spruce forests of White Russia. Vestni  
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SERZHANINA, G.I.

Cap fungi in the pine and spruce forests of White Russia.  
Bot.; in sl.Bel.otd.VBO no.7:148-154 '65.

(MIRA 18:12)

ROKITSKIY, P.F., prof., red.; SERZHANINA, I.N., prof., red.

[Ecology of vertebrates in White Russia] Ekologiya zhi-  
votnykh Belorussii. Minsk, Nauka i tekhnika, 1965. 213 p.  
(MIRA 18:11)

1. Akademiya navuk BSSR, Minsk. Addzel zaalogii i parazi-  
tologii.



SERZHANINA, N.A.

Innervation of the renal calyces and the renal pelvis. Trudy Vor.  
med. inst. 52:55-57 '63. (MIRA 18:3)

SERZHANINA, O.A.

Ligature of the branches of renal arteries and its influence on  
the preservation of the renal parenchyma. Trudy Vor. med. inst.  
52:73-79 '63. (MIRA 18:3)

BARKAN, A.S.; SERZHANINA, T.A.

Effect of additional components on the solubility of substances in  
mixtures. Uch.zap.BGU no.42:199-219 ' 58. (MIRA 12:1)  
(Solubility) (Systems (Chemistry))

SERZHANINA, V.A.; KHROMOV-BORISOV, N.V.; KARLENSKAYA, R.S.

Synthesis and conversions of pyrimidine derivatives. Part 16:  
Study of the activity of methyl groups in 2-methylquinazoline  
derivatives. Zhur. org. khim. 1 no.7:1303-1306 J1 '65.

(MIRA 18:11)

1. Institut onkologii AMN SSSR, Leningrad.

S/035/62/000/005/084/098  
A055/A101

AUTHOR: Serzhanov, A. E.

TITLE: The direct geodetic problem

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 29 - 30,  
abstract 5G176 ("Uch. zap. Dagestansk.un-t", 1961, 7, no. 1, 39 - 49)

TEXT: A solution of the direct problem by the method of approximations is suggested. The auxiliary function  $z$  is given an arbitrary value within the limits:

$$\sqrt{1 - e^2 \cos^2 u_0} < z < \sqrt{1 - e^2 \cos^2 t}$$

where  $u_0$  is the reduced latitude of the first point, and  $\cos t = s/a$ . With the aid of the formula:

$$\sin u = \sin t \sin \left( \frac{\varepsilon}{z} + \omega_0 \right),$$

where  $\varepsilon = s/a$  and  $\omega_0 = \arcsin (\sin u_0 / \sin t)$ , is then calculated the corresponding approximate value of the reduced latitude of the second point. The second approximation is next found for  $z$  from the formula:

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S/035/62/000/005/084/098  
A055/A101

The direct geodetic problem

$$z = \int_{u_0}^u \frac{\sqrt{1-e^2\cos^2u} \cos u}{\sqrt{\sin^2t-\sin^2u}} du : \int_{u_0}^u \frac{\cos u}{\sqrt{\sin^2t-\sin^2u}} du,$$

The whole calculation process is then repeated. It is proved that the process will converge, with the exception, perhaps, of the case when:

$$\operatorname{tg} \left( \frac{\zeta}{1 - e^2 \cos u_0} + \omega_0 \right) \rightarrow \infty.$$

A more complicated solution is proposed for that case. For the determination of the arc length S and of the longitude v of the second point, the following series are recommended for the Krasovski ellipsoid (there are misprints in the calculations and in the final formulae. Ref.):

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S/035/62/000/005/084/098  
A055/A101

The direct geodetic problem

$$\begin{aligned}
 S = & a (0,996\,647\,670\,2 + 0,001\,678\,983\,8 \sin^2 t - \\
 & - 0,000\,002\,121\,2 \sin^4 t + 0,000\,000\,005\,9 \sin^6 t) \times \\
 & \times \arcsin \frac{\sin u}{\sin t} + (-0,001\,678\,983\,8 + \\
 & + 0,000\,002\,121\,2 \sin^2 t - 0,000\,000\,005\,9 \sin^4 t) \times \\
 & \times \sin u \sqrt{\sin^2 t - \sin^2 u} + \\
 & + (0,000\,001\,414\,1 - 0,000\,000\,003\,9 \sin^2 t) \times \\
 & \times \sin^3 u \sqrt{\sin^2 t - \sin^2 u} - 0,000\,000\,003\,1 \times \\
 & \times \sin^5 u \sqrt{\sin^2 t - \sin^2 u}; \\
 v = & v_0 + \arctg \frac{\cos t \sin u}{\sqrt{\sin^2 t - \sin^2 u}} + \\
 & + \cos t [(-0,003\,352\,329\,8 + 0,000\,002\,818\,9 \sin^2 t - \\
 & - 0,000\,000\,007 \sin^4 t) \cdot \arcsin \frac{\sin u}{\sin t} + \\
 & + (-0,000\,002\,818\,9 + 0,000\,000\,0070 \sin^2 t) \sin u \times \\
 & \times \sqrt{\sin^2 t - \sin^2 u} + 0,000\,000\,004\,7 \sin^3 u \times \\
 & \times \sqrt{\sin^2 t - \sin^2 u}].
 \end{aligned}$$

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The direct geodetic problem

S/035/62/000/005/084/098  
A055/A101.

where the result of the substitution from  $u$  to  $u_0$  is to be understood, in all cases, instead of  $f(u)$ .

V. Gan'shin

[Abstracter's note: Complete translation]

Card 4/4



SERZHANOV, A. Ye

"A Direct Geodetic Problem." Cand Phys-Math Sci, Moscow Oblast  
Pedagogical Inst, 30 Dec 54. (VM, 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

KORSHAK, Fedor Afanas'yevich; SERZHANOV, A.Ye., red.

[General projection with a moving pencil of rays in photogrammetry] Tsentral'noe proektirovanie dvizhushchimsia puchkom luchei v fotogrammetrii. Makhachkala, Dagestanskiy gos. univ., im. V.I.Lenina, 1962. 233 p. (MIRA 18:4)

SERZHANT, A. A.

Serzhant, A. A. "Combined Geophysical Work on the Coal Deposits of the Eastern Slope of the Urals." In the book: Za Nedra Urala, Sverdlovsk, 1934, pp. 224-226.

SERZHANS, A. A. In Latvian

SERZHANS, A. A. -- "Investigation of the Growth, Development, and Productivity of Latvian Brown Cattle As A Function of the Amount of the Feed Being Consumed During the Lactescent Period." Latvian Agricultural Academy, 1955. In Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak. Nauk Latvivskoy SSR, No. 9, Sept., 1955

USSR/Farm Animals - Horses.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30919

Author : ~~Serzhans A.A.~~

Inst : -

Title : The Local Breeds of Horses and Their Raising.  
(Mestnyye porody loshadey i ikh razvedeniye).

Orig Pub : Kolkhoznik Sov. Latvii, 1957, No 5, 7-8.

Abstract : In the Latvian SSR, three breeds of horses are being raised. The Latvian Harness breed is a general duty breed composed of large, massive, strong, and lively horses. They have good endurance, and are robust and good for general duty; those lighter among them are also utilized as saddle horses for sporting purposes. This breed was raised by using mainly the Oldenburg breed, and is widespread almost throughout the whole of Latvia except in Lettgale, where since many decades the Trotters are bred. The Lettgale Trotter was

Card 1/2

- 20 -

SERZHANT, A. A.

Serzhant A. A. "Deconstruction of the Askania-Werke Gravitational Variometer Z-40."  
Razvedka Nedr, Moscow, No. 10, 1936, p. 24.

SERZHANT, A.A.

Calculation of higher derivatives of the gravity potential from a  
field of Bouguer anomalies. Razved. i prom. geofiz. no.39:42-53  
'61. (MIRA 15:3)

(Gravity)

GOROZHANINOV, N.Ye., inzhener; SERZHANT, I.I., geodezist.

Effect of welding technology on geometrical dimensions of blast  
furnaces during their construction. Stroi.prom. 34 no.10:26-29  
0 '56. (MLRA 9:12)

1. Trest Uralstal'konstruktsiya.  
(Blast furnaces) (Welding)



L 36506-65 EWA(h)/EWT(1) Feb CG

ACCESSION NR: AT5004672

S/3128/64/000/001/0139/0150

AUTHOR: Zhernov, V. S.; Murashov, Ye. P.; Ryzhov, N. V.;  
Serzhantov, A. P.

TITLE: Electronic switch

SOURCE: Yadernoye priborostroyeniye; nauchno-tekhnicheskiy sbornik, no. 1,  
1964, 139-150

TOPIC TAGS: electronic switch

ABSTRACT: The development of a transistorized electronic switch is reported. The switch is intended for converting several slow-varying d-c voltages into proportional-amplitude pulses and combining these pulses for a common load. It is assumed that all N d-c voltage sources are independent and have an internal impedance of up to 100 kohms. The voltage may vary within 0.005-5 v. The switch comprises (see Enclosure 1) voltage-to-pulse converters  $K_1$ ,  $K_2$ ,  $K_N$ , a

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L 35506-65

ACCESSION NR: AT5004672

2

clock-pulse generator G, a distributor that sends clock pulses to individual converters, and a matching circuit which combines the resulting pulses. An inverse-connected n-p-n Si transistor (P103) is used in the converter. The clock-pulse generator has a conventional blocking-generator circuit; its frequency varies by  $\pm 20\%$  with temperature within  $-10 \pm 50^\circ\text{C}$ . The ferrite-transistor distributor circuit is equipped with a noise filter. The matching circuit includes a common-base stage and an emitter follower; the circuit was tested with 50 converters at  $-10 \pm 50^\circ\text{C}$ . "In conclusion, the authors wish to thank V. M. Skatkin for his help in solving some problems, and I. S. Krashennikov for a useful discussion." Orig. art. has: 9 figures and 20 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: EC

NO REF SOV: 003

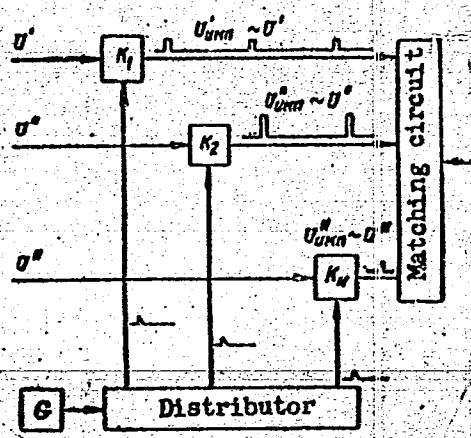
OTHER: 002

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L 36506-65

ACCESSION NR: AT5004672

ENCLOSURE: 1



An electronic switch for combining  
several d-c voltages

Card 3/3

SERZHANTOV, M., inzh.

Building silo structures on collective farms of Krasnoyarsk  
Territory. Sel'.stroi. 9 no.6:13-15 S '54.

(MIRA 13:2)

(Krasnoyarsk Territory--Silos) (Precast concrete construction)

GOL'BERG, D., kand.tekhn.nauk; RENDINO, S., inzhener-arkhitektor;  
SERZHANTOV, S., inzhener-arkhitektor

Panel and frame-panel reed pressboard buildings. Zhil.stroi.  
no.8:17-18 Ag '61. (MIRA 14:8)  
(Reed products) (Walls)

GOL'BERG, D., kand.tekhn.nauk; RENDINO, S., arkhitektor; SERZHANTOV, S.,  
arkhitektor

The village of Sverdlovo in several years. Sil'. bud. 11  
no.5:16 My '61. (MIRA 14:6)  
(Sverdlovo--City planning)

GOL'BERG, D., kand.tekhn.nauk; RENDINO, S., arkhitektory; SERZHANTOV, S.,  
arkhitektory

Using precast methods in reed construction. Sel'. stroi. no.7:  
8-8b '62. (MIRA 15:8)  
(Reed products) (Farmhouses)

ACC NR. AP7001386

(A,N)

SOURCE CODE: UR/0412/04

INVENTORS: Denisov, N. I.; Zhernov, V. S.; Nabatnikov, A. A.; Murashov, Ye. P.; Ryzhov, M. V.; Serzhantov, V. P.; Skatkin, V. M.

ORG: none

TITLE: Multichannel pulse counting rate meter. Class 21, No. 187843 [announced by Union Scientific Research Institute for Instrument Manufacture (Soyuznyy nauchno-issledovatel'skiy institut priborostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obrabotki, tovarnyye znaki, no. 21, 1966, 56

TOPIC TAGS: pulse counter, pulse rate, count rate meter

ABSTRACT: This Author Certificate presents a multichannel pulse counting rate meter containing a cathode ray tube, pulse registers, a high-speed electronic switch, and a vertical and horizontal deflection amplifier for the cathode ray tube. To measure counting rate differences varying over a wide range simultaneously in all channels without switching subranges, electronic commutator switches are connected to the outputs of wide-band linear differential counting rate meters, one for each channel (see Fig. 1). The switch outputs are connected through current-setting resistors and isolating capacitors to the input of a collecting stage consisting of a grounded base transistor. The output of the collecting stage is connected to the input of a linear-logarithmic CRT vertical deflection amplifier.

UDC: 621.374

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ACC NR: AP7001306

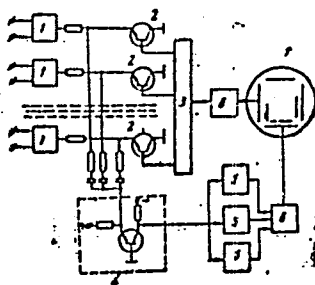


Fig. 1. 1 - counting rate meters; 2 - switches;  
3 - decoder; 4 - electronic commutator; 5 - clipper  
amplifiers; 6 - summing stage; 7 - cathode ray  
tube; 8 - horizontal deflection amplifier

Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 22Nov63

Card 2/2

KRASNOV, A.K., assistant; SERZHANTOV, V.S., student

Characteristics of medicolegal expertise on the carcasses of fetuses and newborn infants. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:213-220 ' 63.

1. Iz kafedry sudebnoy meditsiny ( zav. kafedroy - dotsent S.N. Bakulev) Ivanovskogo gosudarstvennogo meditsinskogo instituta ( rektor - dotsent Ya.M. Romanov).

IKONNIKOVA, A.V., vrach; SERZHANTOVA, K.V., meditsinskaya sestra

Index of articles published in "Meditsinskaia Sestra" from 1942 to  
1959. Med. sestra 19 no. 10:47-48 O '60. (MIRA 13:10)  
(BIBLIOGRAPHY—CARDIOVASCULAR SYSTEM—DISEASES)

IKONNIKOVA, A.V., vrach; SERZHANTOVA, K.V., meditsinskaya sestra

Index of articles published in "Medit'sinskaya Sestra" from 1942-1959:

Organization of work. Two-stage care. Advanced training. Med.  
sestra 20 no. 2:58-63 F '61. (MIRA 14:4)

(BIBLIOGRAPHY—NURSES AND NURSING)

IKONNIKOVA, A.V., vrach; SERZHANTOVA, K.V., meditsinskaya sestra

List of articles published in "Meditsinskaja Sestra" from 1942-1959.  
Med. sestra 20 no.3:60-63 Mr '61. (MIRA 14:5)  
(BIBLIOGRAPHY—CHILDREN—DISEASES)

IKONNIKOVA, A.V., vrach; SERZHANTOVA, K.V., meditsinskaya sestra.

Index of articles published in "Meditsinskaya sestra" from  
1942 through 1959. Med. sestra 22 no.3:61-63 Mr'63.  
(MIRA 16:6)

(NO SUBJECT HEADINGS)

SHAPIRO, D.K., [Shapira, D.K.], kand.biolog.nauk; GALAMSHOK, M.M. [Halamshtok, M.M.]; ORLOVSKAYA, K.I. [Arlouskaia, K.I.]; SERZHANTOVA, P.A. [Serzhantava, P.A.]

Qualitative characteristics and technological value of new  
White Russian cherry varieties. Vestsi AN BSSR.Ser.bial.nav.  
no.2:25-29 '59. (MIRA 12:9)

(WHITE RUSSIA--CHERRY--VARIETIES)

SERZHANTOVA, T.I.

Evaluation of a method for classifying microbes according to their  
antagonistic characteristics. Lab.delc 5 no.4:52-54 Jl-Ag '59.  
(MIRA 12:12)

1. Iz kafedry mikrobiologii (zav. - prof. V.D. Timakov) II Moskovsko-  
go meditsinskogo instituta imeni N.I. Pirogova.  
(BACTERIAL ANTAGONISM)



17(2)

SOV/16-59-9-22/47

AUTHOR: Serzhantova, T.I.

TITLE: The Synergetic Relationship Between Bacteria of the Enteric Group

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 9  
pp 100-104 (USSR)

ABSTRACT: L.G. Peretts, R.S. Mostova, D.G. Manolov and N.M. Luk'yanova have observed that Escherichia coli has the power to suppress the development of other pathogenic bacteria, thus easing the course of disease and even completely eliminating its effects. A few researchers such as S.I. Boryu, Ye.N. Levina, et al. have noted that, apart from this antagonistic activity, E. coli may intensify the growth of pathogenic bacteria. Subject author undertook a study to determine whether E. coli possesses only antagonistic properties as applied to Salmonella typhosa and Salmonella paratyphosa, or whether other synergetic relationships are also present. An attempt was also made to determine the synergetic influences of the typhoid-paratyphoid group and among the subcultures of the same strain. It was found that the products of the life activity of E. coli had a stimulating effect on Salmonella typhosa and Salmonella paratyphosa, an effect which was more pro-

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SOV/16-59-9-22/47

The Synergetic Relationship Between Bacteria of the Enteric Group

nounced with Salmonella paratyphosa B. E. coli strains can produce substances which intensify the development of pathogenic enteric bacteria and inhibit the development of other E. coli strains. Only E. coli strains have the ability to intensify the growth of their own species. Here the synergetic effect could be of 3 types: unilateral, bilateral and auto-stimulative.

There are 5 tables and 6 Soviet references.

ASSOCIATION: II Moskovskiy meditsinskiy institut imeni Pirogova (II Moscow Medical Institute imeni Pirogov)

SUBMITTED: March 16, 1959

Card 2/2

SERZHANTOVA, T.I.

Variability of typhoid bacteria as a result of a short exposure to  
products of B. coli metabolism. Zhur.mikrobiol.epid.i immun. 30  
no.10:102-106 0 '59. (MIRA 13:2)

1. Iz kafedry mikrobiologii II Moskovskogo meditsinskogo instituta  
imeni Pirogova.

(SALMONELLA TYPHOSA)

(ESCHERICHIA COLI)

DOTSENKO, S.N.; SERZHANTOVA, T.I. (Leningrad)

Treatment of chronic alcoholism. Klin.med. 37 no.9:142-145 S '59.  
(MIRA 12:12)

1. Iz kafedry nervnykh bolezney (zav. - deystvitel'nyy chlen AMN SSSR  
prof. S.N. Davidenkov) Leningradskogo gosudarstvennogo ordena Lenina  
instituta usovershenstvovaniya vrachey imeni S.M. Kirova.  
(ALCOHOLISM, therapy)

REZNIKOVA, L.S.; SERZHANTOVA, T.I.

Effect of temperature on the activity of hemolytic serum in the  
complement fixation reaction. Lab. delo no.2:67-69 '65

(MIRA 18:2)

1. Mikrobiologicheskiy otдел (zaveduyushchiy - prof. N.M. Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta (direktor - kand. med.  
nauk N.M. Turanov), Moskva.

1. SERZHANTOVA, YE. A.
2. USSR (600)
4. Coal-Kuznetsk Basin
7. Dimitrov mine area of the Aralichevskiy coal deposit region in the Kuznetsk Basin. (Abstract.) Izv. Glav. upr. geol. fon. no. 2: 1947

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

SERZHENKO, M.S.

Venous pressure and its significance in the diagnosis and prevention of pathology in pregnancy. Kaz. med. zhur. no.3: 60-61 My-Je'63. (MIRA 16:9)

1. Rodil'noe otdeleniye (zav. - M.S. Serzhenko) mediko-sani-tarnoy chasti Zhdanovskogo metallurgicheskogo zavoda (glav-nyy vrach - M.L.Samoylovich, rukovoditel' raboty - kand.med.nauk A.M.Charnyy).  
(BLOOD PRESSURE) - (PREGNANCY, COMPLICATIONS OF)

1. SEMENKO, S.S.
2. USSR (40 )
4. Viticulture
7. Viticulture in the new five-year plan. Sad. i sg. no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.



SERZHENKO, S. S.

MESHALOVA, A. D. [Co-author] See: SERZHENKO, S. S. "Testing Preparation-substitutes for Bordeaux Mixture (in Mildew Control on Grapes)," 1952.

SO: Sira SI-90-53 15 Dec. 1953

SERZHENKO, S. S.,

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548210003-7  
MESHALOVA, A. D. "Testing Preparation-substitutes for Bordeaux Mixture (in Mildew Control on Grapes)," Vinogradnitsvo SSSR, vol. 12, no. 1, 1952, pp. 51-52. 95.8  
877

SO: SIRA SI-90-53, 15 Dec. 1953

Serzhenko, S. S.

CH ✓ Manufacturing of Muscat wines in the Anapa region  
U.S.S.R.). S. S. Serzhenko and A. M. Safaryan (Vinicul-  
ture Exptl. Sta., Anapa, U.S.S.R.). *Vinodelie i Vino-  
gradarstvo S.S.S.R.* 15, No. 1, 6-8(1955).—The grape  
variety, Hamburg Muscat, grown in the Anapa region, U.S.S.-  
S.R., yields 70 and more centners grapes/ha., with a grape  
sugar concn. of 20.7-24.2% and total acidity of 5.1-6.3 g./l.  
The wines of the 1949-1953 prepns. beside high organoleptic  
qualities showed the following chem. compns.: alc. 13.3-  
16.19%, sugar 16.60-17.60%, titratable acidity 4.1-4.7  
g./l., total extractable substances 26.2-33.9 g./l., and sp.  
gr. 1.0323-1.0635.

Wierbicki

①

YABLOKOV, A.V.; SERZHENIT, D. Ye.

Variability of craniological characteristics in the harp seal  
(Pagophilus groenlandicus Erxleben 1777)/ Zool. zhur. 42 no.12:  
1857-1865 '63 (MIRA 17:7)

1. Institute of Animal Morphology, Academy of Sciences of the  
U.S.S.R. Moscow, and the Arctic Unit of Fisheries Board of  
Canada, Montreal.

2925h  
S/103/61/022/010/013/018  
D274/D301

16.4006 (329,1013,1132)

AUTHORS: Minina, O. M., Serzhars, V. S., and Subbotina, G. V.  
TITLE: Proportional-integrating and proportional-differentiating elements as RC-networks with magnetic amplifiers  
PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 10, 1961, 1373-1385

TEXT: The use of magnetic amplifiers enhances considerably the reliability of proportional-integrating (PI) and proportional-differentiating (PD) elements of control devices. PI- and PD- elements are elements with transfer functions of type

$$W_{PI}(p) = k + \frac{1}{T_I p} \quad (1a)$$

$$W_{PD}(p) = k (1 + T_D p) \quad (1b)$$

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Proportional-integrating...

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D274/D301

where  $k$  is a proportionality constant,  $T_I$ --the time constant of integration,  $T_D$ --the time constant of differentiation. Fig. 1a represents a block-diagram of an RC-magnetic amplifier. The integrating elements are obtained by connecting the capacitor  $C$  and resistor  $R_{NFB}$  to the negative-feedback loop. The gain of the amplifier is increased by the positive feedback through coil  $W_{PFB}$ . Formulas are given for the voltage, gain, time constants, etc., of the circuit. It is noted that leakage resistance depends on the temperature of the surroundings; therefore, the time constant  $T_C$  decreases with increasing temperature. This may lead to unstable operation of such devices. With large resistance of  $W_{NFB}$ , or with additional resistances in the feedback loop, the RC-magnetic amplifier can be considered as a proportional-integrating element, as  $T_{feedb.} \ll T + T_{feedb.}$ . The parameters of this element are determined from the transient process during a single step-wise change in the input

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Proportional-integrating...

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current  $i_y$  (see Fig. 1b). The proportionality factor  $k$  of the element is defined as

$$k = \frac{\int i_H dt_{t=0}}{\int i_y dt_{t=0}} = k_1 \frac{T_{\text{feedb.}}}{T_{\text{feedb.}} + T} \quad (6)$$

where  $i_H$  is the load current. Formulas for the time constant of integration  $T_I$ , and for the steady-state error  $k_{SE}$  are given. In order to obtain small  $k_{SE}$ , it is necessary to increase the gain factor  $k_1$  (as  $k_{SE}$  and  $k_1$  are inversely proportional); this leads, however, to much smaller  $T_I$ . Hence, an RC-magnetic amplifier as a PI-element, is only recommended for systems with small  $T_I$ . The magnetic amplifier with ideal RC-network of Fig. 1a constitutes an aperiodic circuit. Further, PI-

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Proportional-integrating...

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D274/D301

elements formed of two magnetic amplifiers are considered. In this case, the time constant of integration can be increased; hence, such a circuit can be recommended for systems with large time constants. The main requirement with regard to magnetic amplifiers with RC-networks is a large time-constant  $T$  with high zero-stability. The stability of differential systems of magnetic amplifiers was experimentally studied. It was found that highest stability was obtained in systems with external positive feedback (of current difference across inductances). Some of the parameters of such amplifiers are given:  $u_{ind} = 100$  volt,  $R_{load} = 5.1$  kilohm,  $C_{load} = 1$   $\mu$ farad,  $C = 30$   $\mu$ farad,  $R_{neg.feedb.} = 350$  ohm. Such a circuit is recommended for magnetic amplifiers with RC-networks. The zero drift of the magnetic amplifier is negligible for a 10% change in input voltage, for a temperature change of 20 to 50°C, and for continuous 8-hour operation. A figure shows the transient characteristics of the magnetic amplifier:  $T \approx 100$  sec. (for linear working conditions);  $k = 220$ ;  $T_I = 30$  sec.;  $k_{SE} = 1.05 \cdot 10^{-3}$ . Fig. 6a represents a block-diagram of the PD-element,

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Proportional-integrating...

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S/103/61/022/010/013/018  
D274/D301

consisting of 2 magnetic amplifiers  $MA_1$  and  $MA_2$ .  $MA_1$  is identical with the aperiodic unit of Fig. 1a;  $MA_2$  is an adder. The proportionality factor  $k$  is expressed by

$$k = \left[ \frac{di_{H2}}{dt} \right]_{t \rightarrow \infty} / \left[ \frac{di_{y2}}{dt} \right]_{t \rightarrow \infty} \quad (14)$$

where  $i_H$  denotes the load current. The time constant of differentiation  $T_D$  is determined from

$$i_{H2}(t + T_D) = k i_{y2}(t) \quad \text{for } t \rightarrow \infty \quad (15)$$

A table lists the parameters ( $k$ ,  $T_D$ , and the differentiation factor  $k_D$ ) of the PD-element. It is evident from the table that these parameters depend on the transfer ratio of  $MA_1$  and  $MA_2$ , which is equal to  $k_1 k_4 k_D$  (which are gain factors). For best differentiation performance,

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D274/D301

Proportional-integrating...

$k_1 k_4 k_D \gg 1$ . Thereby,  $T_D$  of the ideal PD-element will be maximal (equal to  $T$  of the aperiodic unit), and  $T_D$  of the actual element will differ from  $T$  by a factor of  $(1+T/T_c)$ . The parameters and the stability of the PD-elements are the better, the closer the RC-network is to an ideal network. The parameters of the PD-element are:  $k = 5.9$  (or lower);  $T_D = 97.5$  sec.;  $k_0 = 36.4$ . The constructed PD-element was tested together with the modeling device EMU-8. It was found that the experimental and calculated parameters are in good agreement. Tables show that the parameters of PI- and PD-elements are mainly determined by the quality of the magnetic amplifiers used. The time constants of the PI- and PD-elements can be increased by increasing the capacitance of the RC-capacitors, as well as by increasing the size of the cores of the magnetic amplifiers. There are 9 figures, 3 tables and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: H. W. Platten, Magnetic Integrating Amplifiers, Proc. CMA, AIEE, Los Angeles, 1958.

Card 6/8  
7

Proportional-integrating...

SUBMITTED: February 14, 1961

29254  
S/103/61/022/010/013/018  
D274/D301

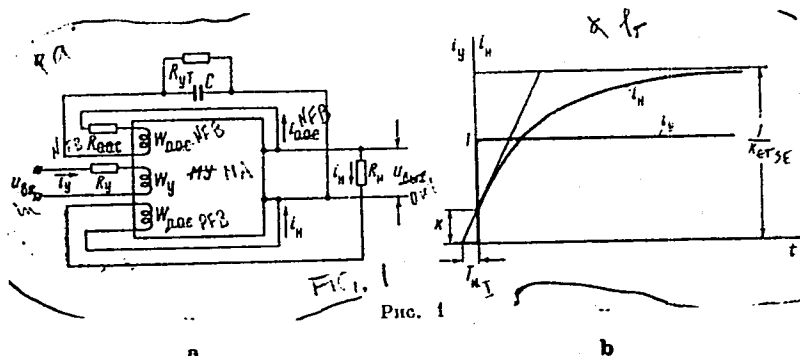


Fig. 1

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7

SERZHERS, V. S.

SERZHER, V.S.; GHIETOVA, Ye.S.

Transistor blocks for the PI and PID regulators. Priboroostroenie  
no.11:15-18 N '61. (MIRA 14:10)  
(Transistor circuits)  
(Electronic control)

45585

S/103/63/024/002/010/020  
D201/D308

AUTHORS: Minina, O.M. (Deceased) and Serzhers, V.S. (Moscow)

TITLE: Proportional-differential regulator with magnetic amplifiers in vibrational state

PERIODICAL: Avtomatika i telemekhanika, v. 24, no. 2, 1963, 215-222

TEXT: The authors consider the design assumptions, the circuit diagram and operation of a proportional-differential regulator with chopper-operated magnetic amplifiers and derive the transfer functions of its components. The arrangement is a closed-loop system, having a summing magnetic amplifier, a three-position magnetic relay and a magnetic amplifier with a RC-link in the feedback loop. The input amplifier performs the automatic addition of the control and feedback ampere-turns. The magnetic relay following the amplifier is used as a contactless three-position relay. It consists of two single-ended magnetic amplifiers with heavy positive feedback. The relay is open until the ampere-turns at the first amplifier reach

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